


# McGuire


One Team, One Theme, Mobility!

## McGuire Air Force Base Restoration Program Site # SS-24

### Interim Remedial Action




## U.S. AIR FORCE




INTERSTATE  
COUNCIL  
ON THE  
MANAGEMENT  
OF  
RESOURCES

### John G. Pohl, Restoration Program Manager


NJDEP Triad Approach Meeting September 4<sup>th</sup>, 2003



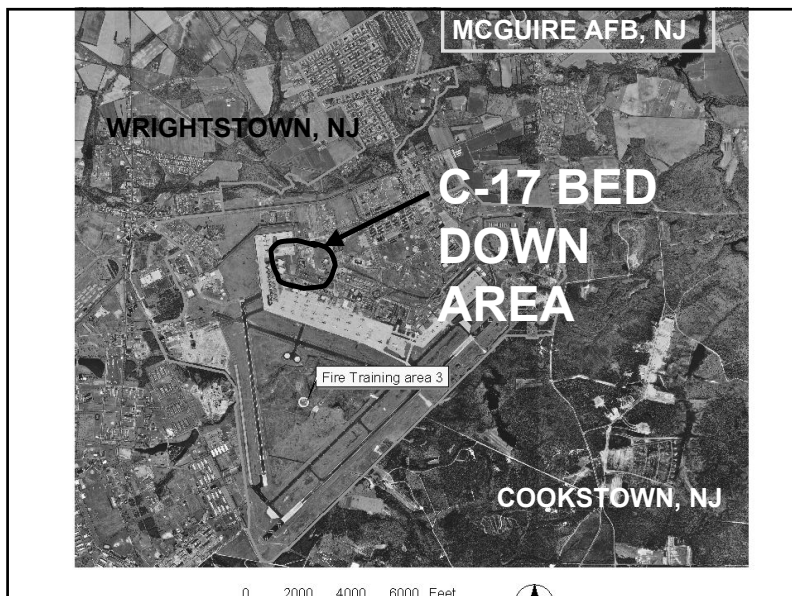
# Topics

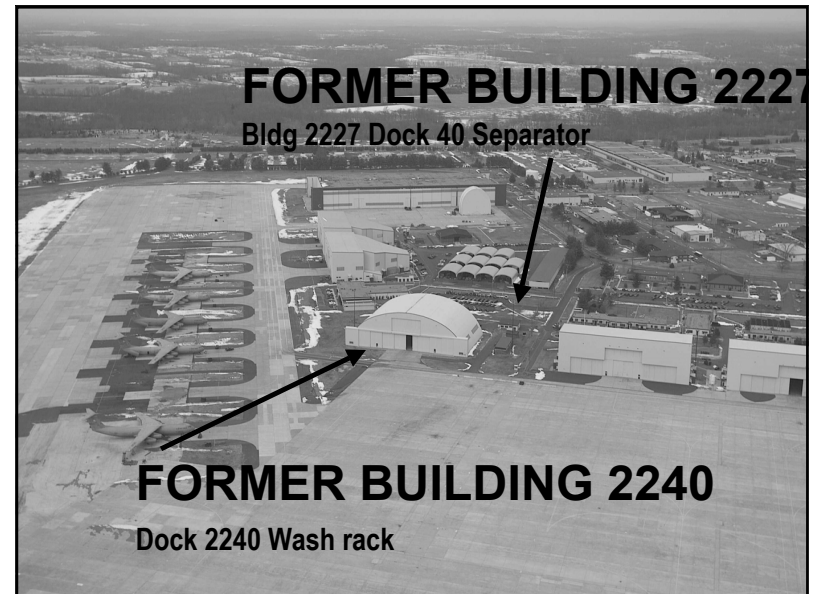
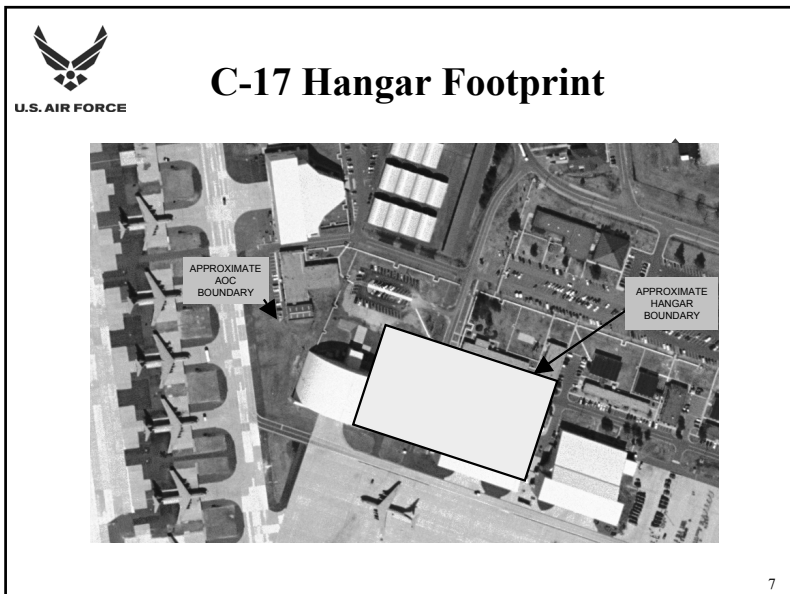
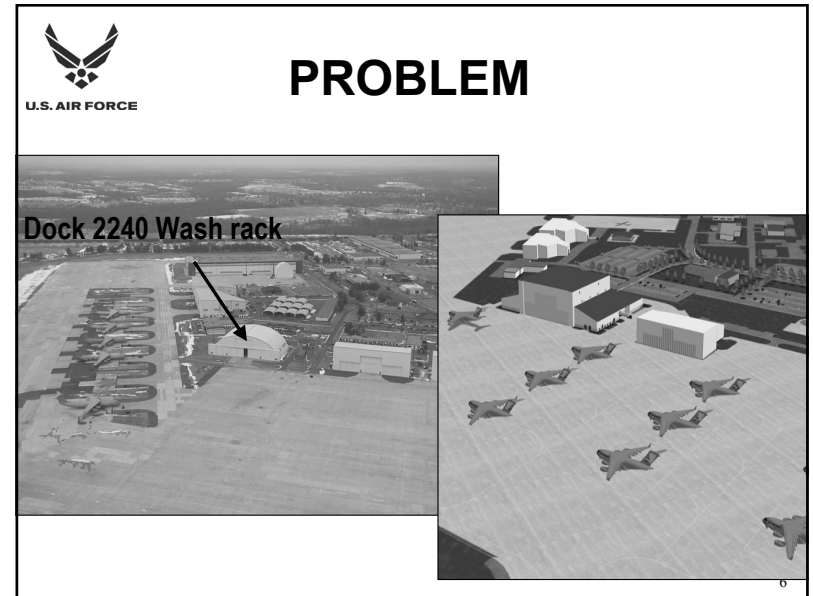


- History of McGuire Restoration Site # SS-24
- FASTRAC
- SS-24 Interim Remedial Action
- Summary



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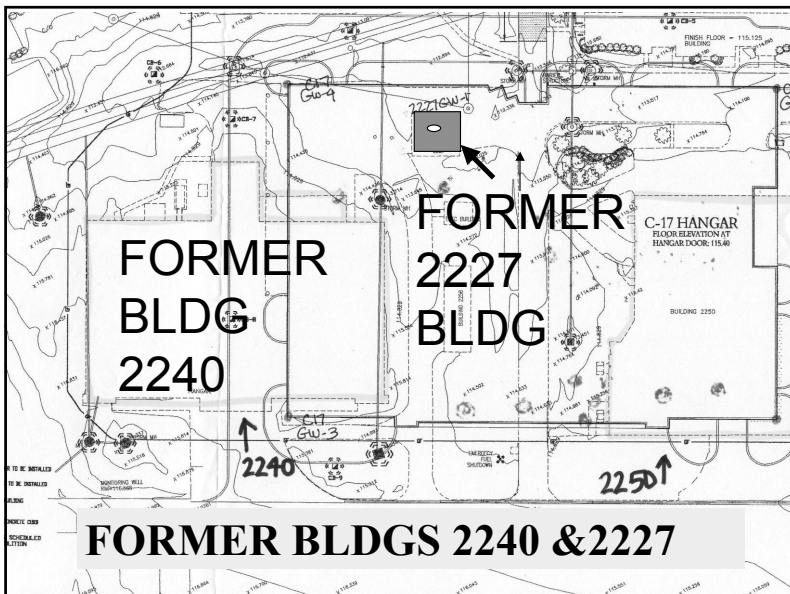


## ISSUES

**FEB 03 - Geoprobe Sample taken at the former Building 2227 site, revealed high levels of organic contaminants & breakdown products in groundwater in this area.**

- ☐ **Tetrachloroethene (PERC) at a maximum concentration of 13,754  $\mu\text{g/L}$  Regulatory Level 1 $\mu\text{g/L}$**

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## FAST TRACK PLAN

- ☐ 01 APR 03 - Expeditiously characterize this site and develop a remedy
- ☐ Proceed with constructing the hangar on the site.

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## SS-24 Interim Assessment and Remedial Action

- Tasks
  - ☐ Secure/Realign Funding
  - ☐ Develop SOW
  - ☐ Award Contract
  - ☐ Develop Work Plan
  - ☐ Secure Regulator Approval of Work Plan
  - ☐ Complete Characterization
  - ☐ Develop Interim Removal Action Plan
  - ☐ Secure Regulator Approval of IRA Plan
  - ☐ Execute IRA

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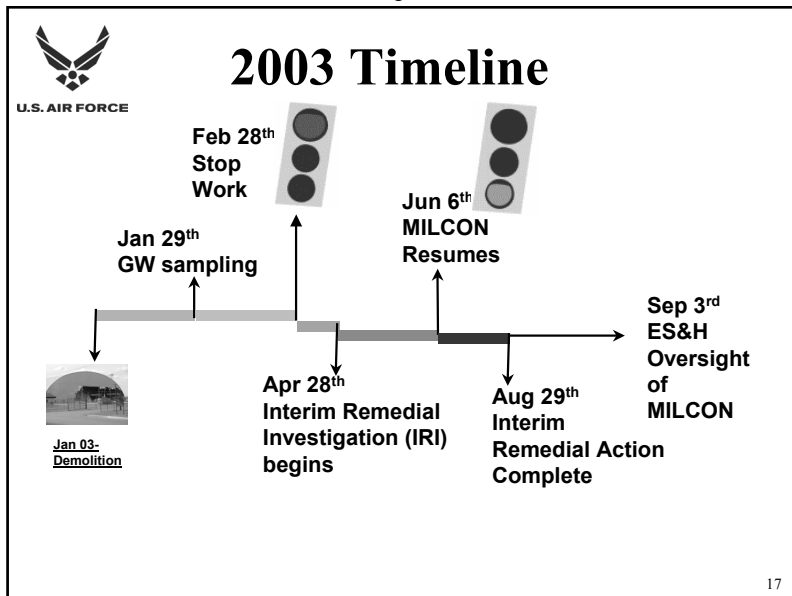
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**FASTRAC**

- Incorporates key elements from other expedited assessment methods
- High level of key stakeholder interaction
- Requires experienced **FASTRAC** Technical Team (FTT) empowered to make decisions in the field
- 👍 Completes projects faster, cheaper, and with greater regulatory satisfaction

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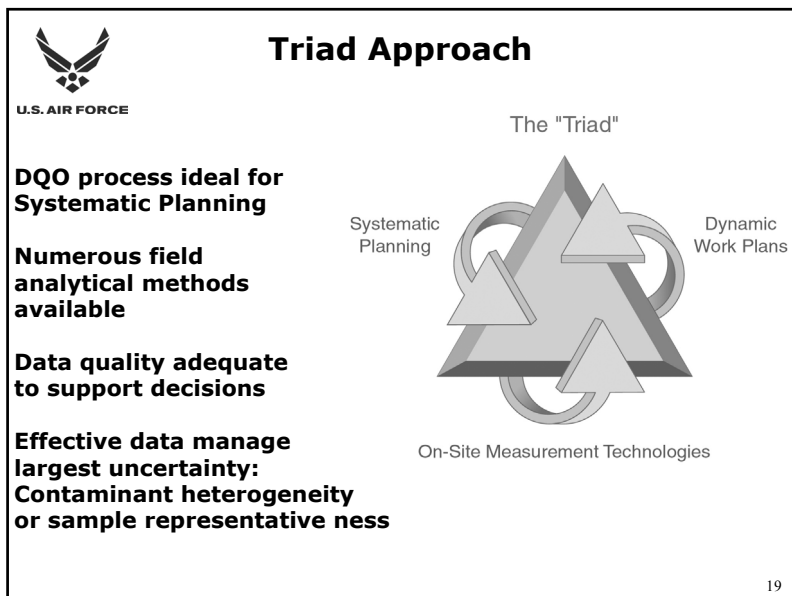
**C-17 Interim Characterization & Interim Remedial Action**

**SS24 Interim Assessment and Remedial Action, McGuire AFB, NJ**

The collage includes: a photo of a C-17 aircraft on a runway; a photo of a large pile of debris or rubble; a technical drawing or map; and a photo of a building under construction or demolition.

**Fastrac Technical Team**  
**Science Applications International (SAIC)**  
**Hayworth Engineering Science, Tri-Corder**

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**Triad approach requires a tool box of site assessment tools**

**Soil and groundwater sampling tools:**


- CPT discrete soil and GW samplers
- Percussion direct push discrete soil and GW samplers
- MIP subsurface VOC sampler

**Soil and GW analytical tools**

- FID/PID/ECD for MIP VOCs
- DSITMS for VOCs in discrete soil and GW
- Off site lab for VOCs in selected discrete soil and GW

The photo shows a black toolbox with various tools laid out on a surface, including a hammer, a wrench, a screwdriver, and a small container.

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**McGuire AFB, NJ C17 Hanger Site Investigation**

**The problem:**



Construction of a new hanger for C17 aircraft delayed by recently discovered potential CI solvent source.

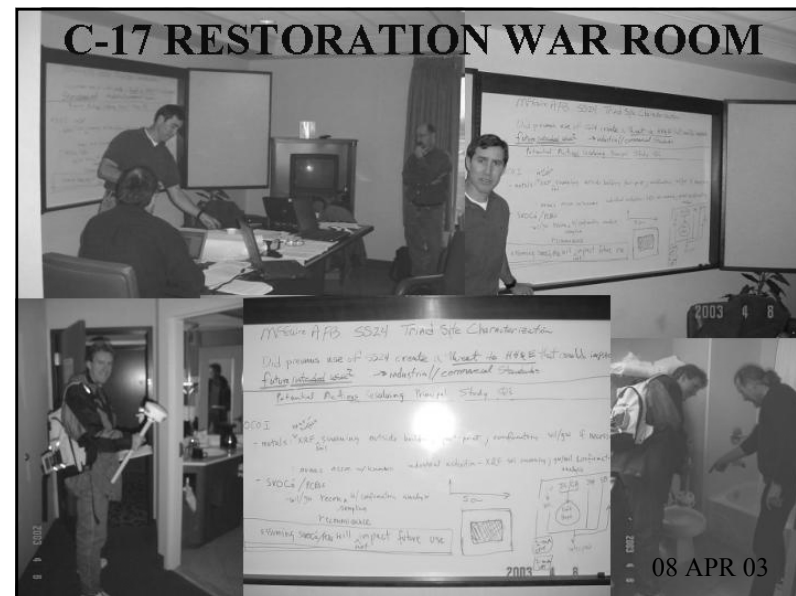
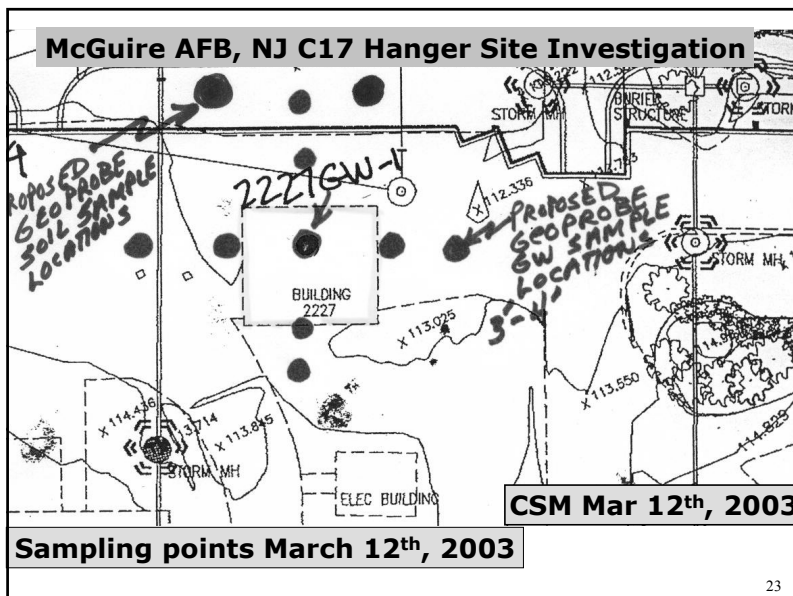
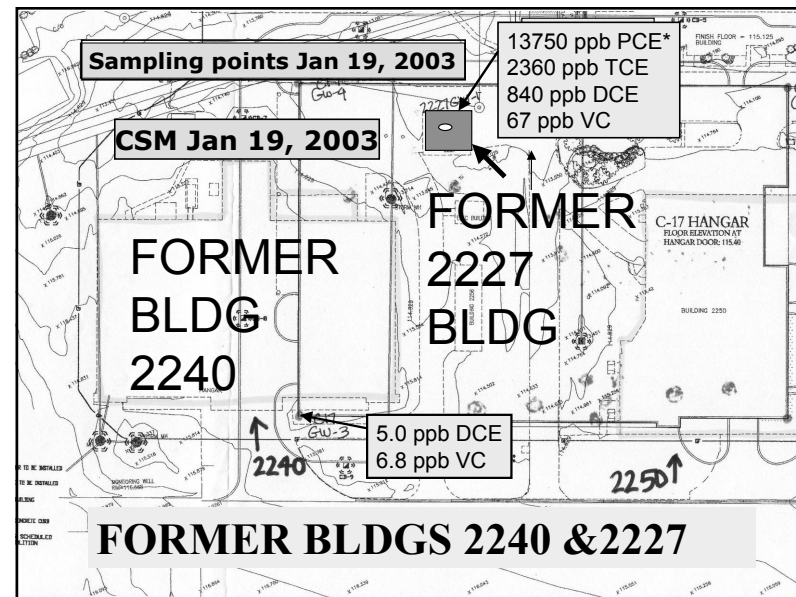
Very limited GW sampling indicated up to 1% of solubility limit PCE

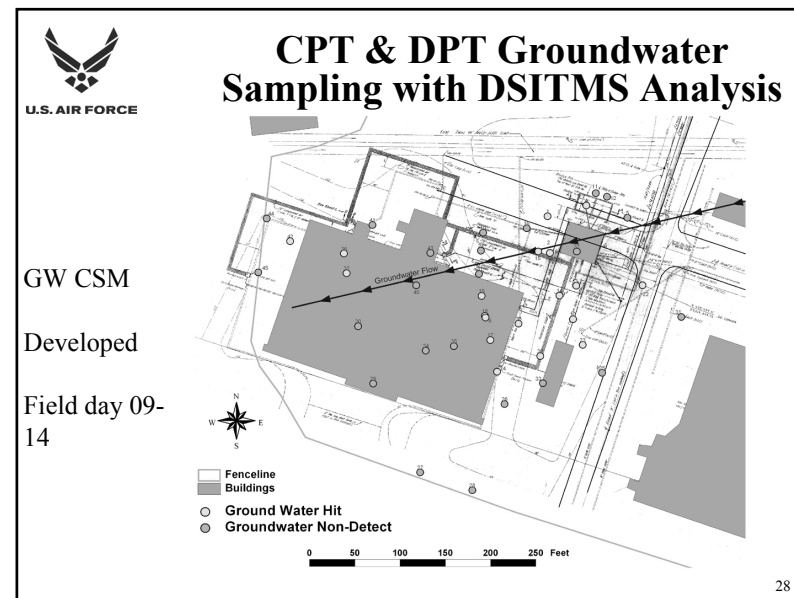
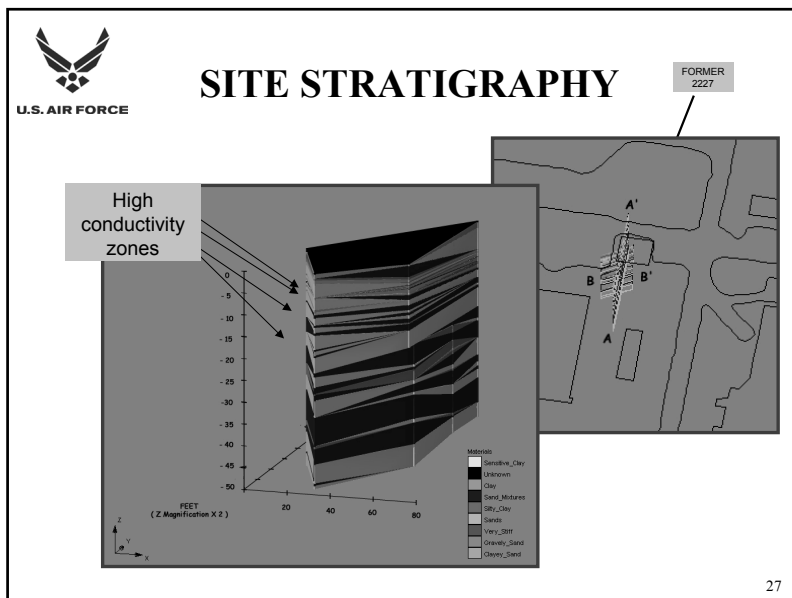
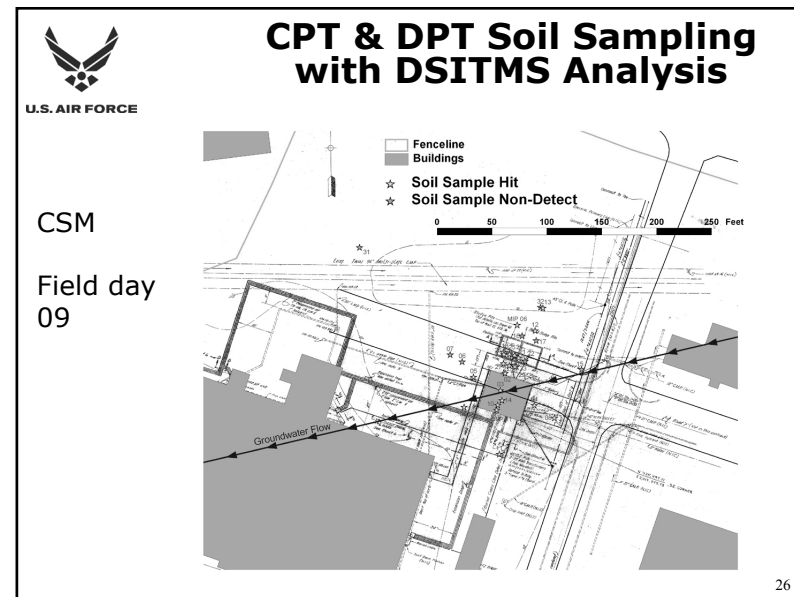
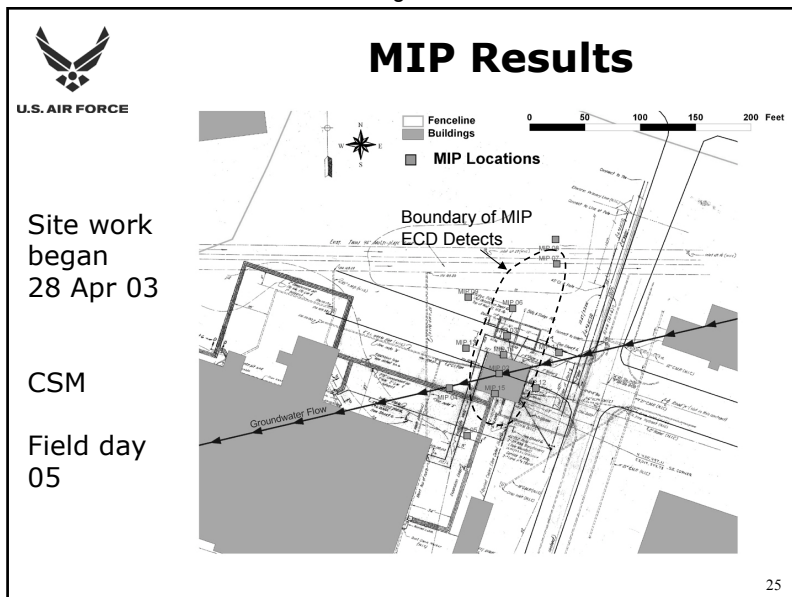
Same data indicated limited distribution of shallow dissolved phase

Apparent dechlorination underway at site

Construction to resume in June 03

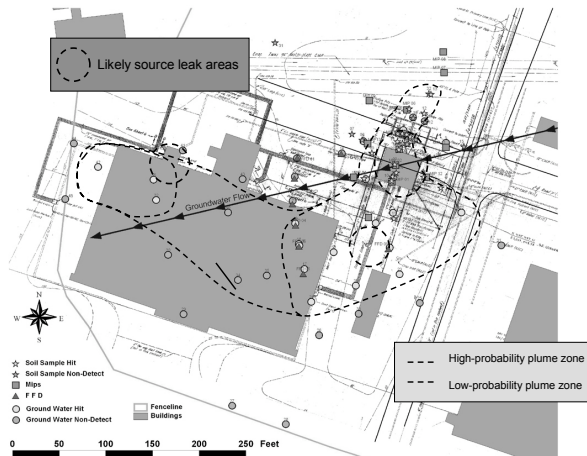







14 field days  
15 MIP penetration  
15 Geophysical CPT penetrations  
>20 continuous soil core logged

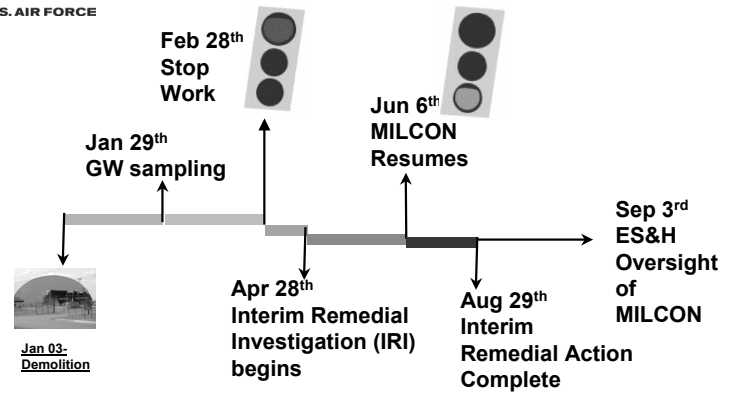
Data collected using DSITMS and EPA Method 8265  
33 soil sampling locations, 234 discrete soil analyses  
45 GW sampling locations, 162 discrete GW analyses  
244 QC analyses



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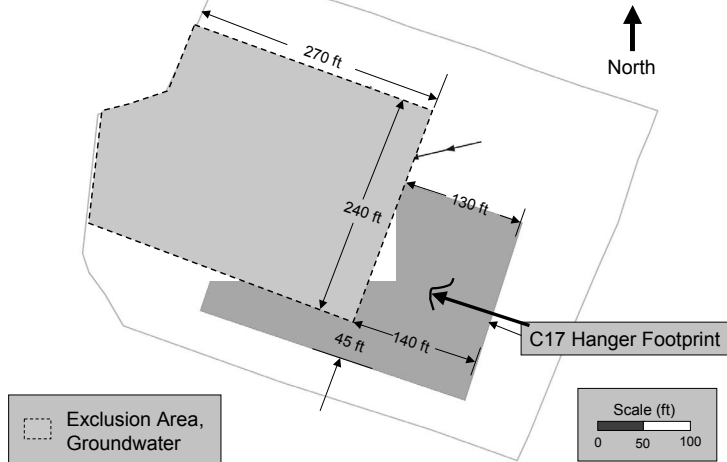


## 2003 Timeline



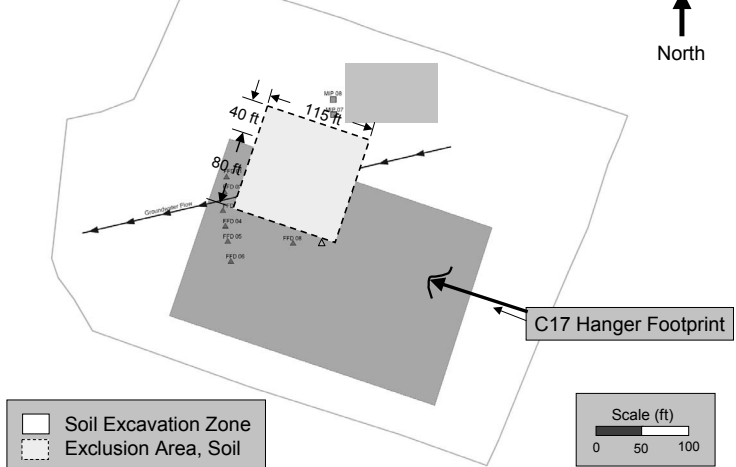
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## GROUNDWATER EXCLUSION ZONE

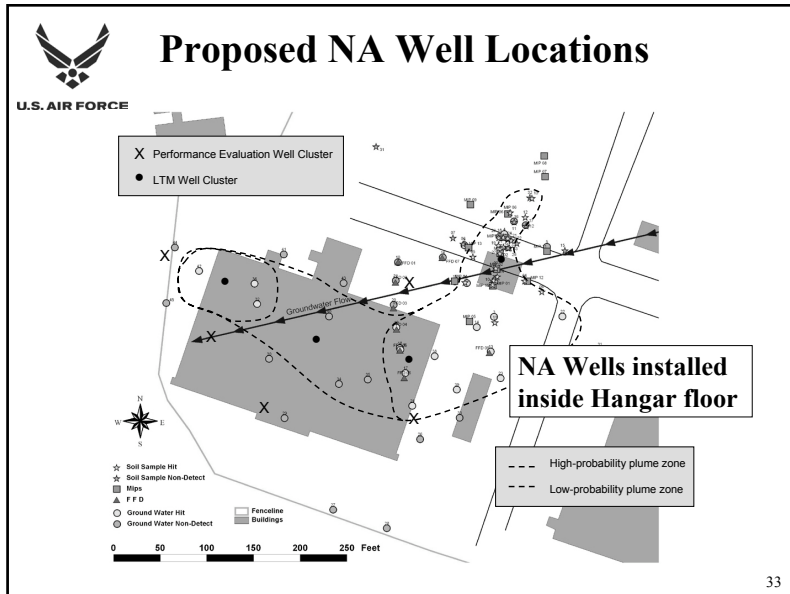


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## SOIL REMOVAL LOCATIONS



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**STATUS**

■ **Tasks (As of 2 AUG 03)**

- ✓ Secure/Realign Funding
- ✓ Develop SOW
- ✓ Award Contract
- ✓ Develop Work Plan
- ✓ Secure Regulator Approval of Work Plan
- ✓ Complete Characterization
- ✓ Develop Interim Removal Action Plan
- ✓ Secure Regulator Approval of IRA Plan
- ❑ Execute IRA

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**SUMMARY**

Keys to project success:

- **FASTRAC** Total Restoration Approach
- Outstanding teamwork
- Excellent communications
- Synergistic teaming between the AF, regulators and the FTT
  - Common goal
  - Trust
- Motivated “A-Team” across the board
- Top cover from command

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